



CANCER PREVENTION & RESEARCH
INSTITUTE OF TEXAS

CPRIT Product Development Research

FY 2022 Cycle 2 (22.2) TXCO, RELCO, SEED RFAs

Webinar: November 16, 2021

Webinar Presenters

CPRIT Product Development Research:



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Chief Product Development Officer



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CPRIT Reviewers:



David Shoemaker, PhD
*Deputy Chair, Product Development
Review Council*



Jim Jordan, MBA
Reviewer, Product Development



Agenda and Q&A

Agenda

- Overview – CPRIT Product Development Research Program and available RFA grant mechanisms (SEED, TXCO, RELCO)
- Q&A Session

Q&A

- Attendees will have their video/mic disabled during the webinar.
- Attendees may submit questions at any time via Zoom Q&A.
- Questions will be addressed at the end of the presentation.



CPRIT Award Data

1,679 Awards Totaling \$2.86 Billion

Academic Research
1,371 awards, \$2.06 Billion

Product Development
50 awards, \$493.2 Million

Prevention
258 awards, \$300.3 Million

- 43 companies funded, including 14 relocation companies
- 28 TXCO, 14 RELCO, 8 SEED awards
- 6 companies with multiple awards
- 19 awardee companies conducting active clinical trials

- \$5.09 billion direct follow-on funding raised by companies (> 10 to 1)
- 1100+ jobs created in Texas
- Products launched
 - Belzutifan for cancers associated with von Hippel-Lindau disease** (Peloton acquired by Merck)
 - Visualase MRI-Guided Laser Ablation** (acquired by Medtronic)
 - Multiple NGS products** developed/launched by Asuragen (acquired by Bio-Techne)
 - OncologyMAP** developed by RBM (acquired by Myriad, purchased by Q2 Solutions)



Product Development Research Priorities

- Funding novel projects that offer therapeutic or diagnostic benefits not currently available; i.e., **disruptive technologies**
- Funding projects addressing large or challenging **unmet medical needs**
- Investing in **early-stage** projects when private capital is least available
- Stimulating commercialization of technologies developed at **Texas institutions**
- Supporting **new company formation in Texas or attracting promising companies to Texas** that will recruit staff with life science expertise, especially experienced C-level staff, to lead to seed clusters of life science expertise at various Texas locations
- Providing appropriate **return on Texas taxpayer investment**



Product Development Research RFAs

- **Objectives**

- Identifying and funding projects to develop **novel drugs, diagnostic applications, medical devices and other non-traditional products** with focused relevance to **cancer** treatment and prevention
- Funding **Texas-based companies and companies willing to relocate to Texas** that are most likely to bring important products to the marketplace
- Providing funding that promotes the **translation of research at Texas institutions into startup companies** able to compete in the marketplace



Product Development Research Award Mechanisms

- **Texas Company Awards (TXCO)**
 - Early-stage companies already located in Texas
 - Up to \$20 million; 3 years
- **Company Relocation Awards (RELCO)**
 - Early-stage companies willing to relocate to Texas
 - Up to \$20 million; 3 years
- **Seed Awards (SEED)**
 - Startup companies; already based in Texas or willing to relocate to Texas
 - Up to \$3 million; 3 years



Product Development Research Investments

Lubbock



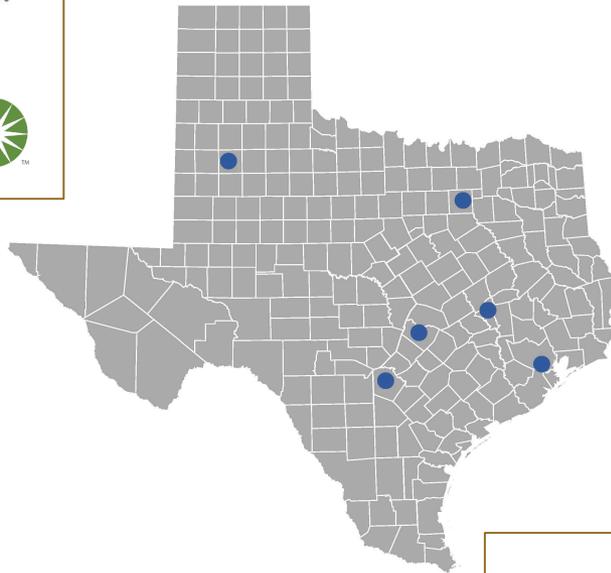
San Antonio



College Station



DFW Metroplex



Houston



Austin



State of Texas University Spin-Outs

Lubbock



San Antonio





College Station

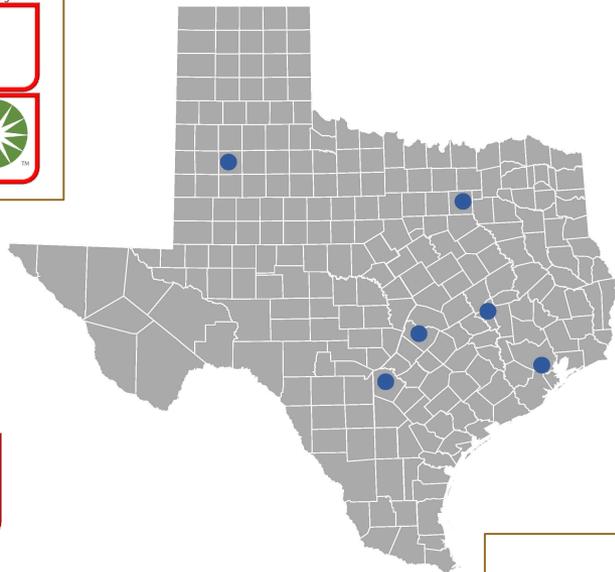



DFW Metroplex







Houston


























Austin





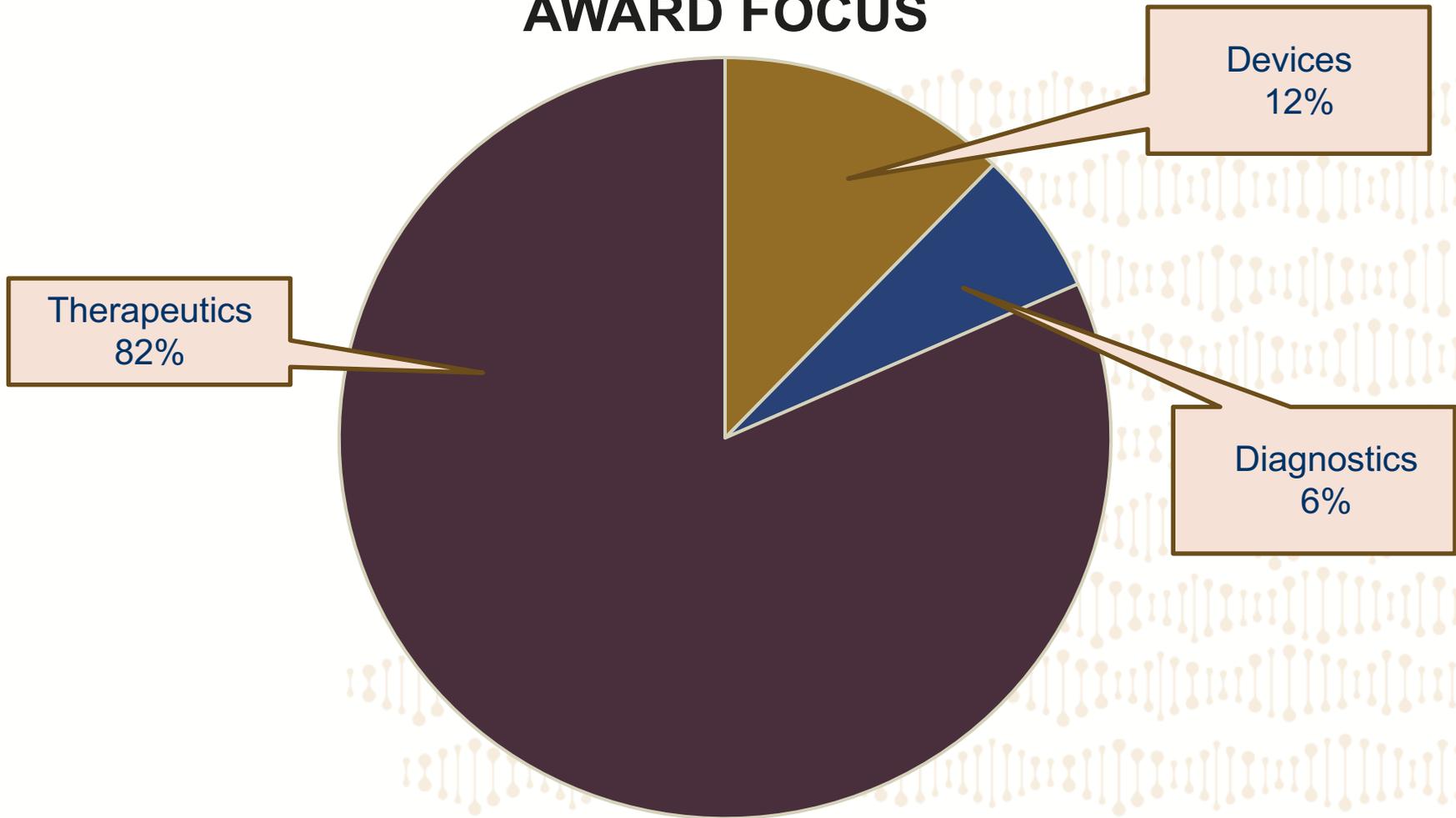






Current Product Development Portfolio Mix

AWARD FOCUS



FY2022 Cycle 2: Product Development Research Award Mechanisms

- **Texas Company Awards (TXCO)**
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- **Seed Awards (SEED)**
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 - Up to \$3 million; 3 years



Key Points to Consider, Part 1

- **Contracted relationship with CPRIT**
- **50% match requirement for Awards up to \$20 million**
 - For example, a company that applies for \$1 million in CPRIT funding must raise \$500,000 in external matching funds
 - For recipient of more than one CPRIT award – details on next slide
- **CEO Requirement**
 - Must have a chief executive officer (CEO) as part of the applicant's management team prior to submitting an application
- **Annual Progress Report Review** – must **meet goals/objectives** to continue funding



Key Points to Consider, Part 2

- **50% match requirement for Awards up to \$20 million**
 - For example, a company that applies for \$1 million in CPRIT funding must raise \$500,000 in external matching funds (for every \$1 company match, CPRIT funds \$2). In this example, the total budget for the project is \$1.5 million.
- **Match requirements for Multiple Awards with combined value over \$20 million**
- For companies that have received **more than one award**, matching funds requirements are linked to the **combined total dollar amount** of awards committed to the company.
 - Up to \$20 million dollars (in total): 1:2 match requirement
 - Greater than \$20 million dollars (in total): 1:1 match requirement
 - Greater than \$30 million dollars (in total): 2:1 match requirement

Multiple award examples:

SEED awardee at \$3 million (first award, 1:2) and \$15 million (second award, 1:2):

Combined \$18 million

TXCO awardee at \$6 million (first award, 1:2) and \$20 million (second award, 1:1):

Combined \$26 million

TXCO awardee at \$6 million (first award, 1:2) and \$12 million (second award, 1:2):

Combined \$18 million



Key Points to Consider, Part 3

- **Texas Location Criteria**

- Awardees must; either be based in Texas or commit to become Texas-based
- an awardee is considered to be Texas-based if it fulfills a majority of the following criteria:
 1. The US headquarters are physically located in Texas.
 2. The Chief Executive Officer resides in Texas.
 3. A majority of the company's personnel, including at least 2 other C-level employees (or equivalent) reside in Texas.
 4. Manufacturing activities take place in Texas.
 5. At least 90% of grant award funds are paid to individuals and entities in Texas, including salaries and personnel costs for employees and contractors.
 6. At least 1 clinical trial site is in Texas.
 7. The company collaborates with a medical research organization in Texas, including a public or private institute of higher education.



Points to Consider, Part 4

- **Direct link between Goals and Objectives and funding**
 - Release of funds will be dependent upon the completion of the applicant's proposed Goals & Objectives for each project year.
 - Funding will be tranced by project year budget and completion of the Goals & Objectives submitted in the applicant's proposal.
- **Advance Payments: Key Takeaways**
 - Are tied to successful completion of prior year's milestones
 - May request up to 50% of annual project budget at a time
 - Awardee must demonstrate 90% spend of previous advance before requesting next advance → not a fast process
 - Awardees may need to rely on matching funds for cash flow needs
 - More details: Section 8.2.2 of [CPRIT Policies and Procedures Guide](#)



Key Points to Consider, Part 5

- **Revenue sharing commitment**
 - **Therapeutics: 3-5% royalty until 4X the award amount paid to Texas. After 4X award amount is paid to Texas, royalty reduced to 0.5% through patent expiration or loss of market exclusivity, whichever is longer.**
 - For example, therapeutics awardee that receives a \$10 million CPRIT award pays 3-5% in royalties (depending on the amount of cumulative revenue) until the total royalty payments equal \$40 million, at which point royalties would drop to 0.5% through patent expiration or loss of market exclusivity, whichever is longer.
 - **Devices/Diagnostics/Services: 2.5% royalty until 2.5X the award amount paid to Texas. Then royalty reduced to 0.5% through patent expiration or loss of market exclusivity, whichever is longer.**
 - For example, diagnostics awardee that receives a \$10 million CPRIT award pays 2.5% in royalties (depending on the amount of cumulative revenue) until the total royalty payments equal \$25 million, at which point royalties would drop to 0.5% through patent expiration or loss of market exclusivity, whichever is longer.
 - **More details:** <https://www.cprit.state.tx.us/our-programs/product-development-research/revenue-sharing/>



Multi-Stage Peer Review Process

FY 2022 Cycle 2

Application Submission:

Companies submit grant proposals by deadline

Opens Dec 1, 2021
Closes Jan 26, 2022



Screening Teleconference:

Initial Grant Proposal Review and Scoring

March 2022



Peer Review Meeting:

Applicant Presentations (virtual teleconference)

April 2022

Due Diligence Review

April 2022 – July 2022



Program Integration Committee Review

August 2022



Oversight Committee Review and Approval

August 2022



FY 2022 RFA Key Dates

FY 2022 Cycle 2

RFAs Released	November 3, 2021
Application Portal Opens	December 1, 2021
Applications Due	January 26, 2022
In-Person Presentation	April 2022
Award Notification	August 2022

FY 2023 Cycle 1

RFA Release Date	June/July 2022
Applications Due	August 2022
Award Notification	February 2023





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Hallmarks of a Fundable Application Reviewer Perspectives

David Shoemaker, PhD
Deputy Chair, Product Development Review Council

Jim Jordan, MBA
Peer Reviewer, Product Development

Invest in Commercially Viable Projects

SEED Awards:

- Startups, early-stage commercial concept
- Novel technology, may not be completely at product stage
 - Drugs and Biologics, multiple candidates, no lead
 - Devices, early prototype, not fieldable
 - Diagnostics, may have a research test or Laboratory Developed Test (LDT)
- Strong value proposition with preliminary business plan
- Science-based personnel accessing commercial product development consultants
- Demonstrated understanding of the commercial product development process IND/IDE (clinical, preclinical, CMC, regulatory)

TXCO/RELCO Awards:

- Newly established or established companies
- Novel technology, more likely at product stage
 - Drugs and Biologics, established lead (IND within a year)
 - Devices, commercial-ready prototype (IDE within a year)
 - Diagnostics, commercial-ready prototype (IDE within a year)
- Viable commercial concept with strong Value Proposition and business plan
- Veteran, experienced product development team (fewer consultants)
- Veteran, experienced management team, likely to have secured independent funds
- Deep understanding of the of commercial product development process and marketplace (clinical, preclinical, CMC, regulatory, statistical, marketing, reimbursement, program management, post-market surveillance, competitive landscape, product life cycle, pipeline development, distribution strategy, partnering strategy)



SEED: Early Development Stage Award

- Startup companies
- ~2 - 3 years from filing IND/IDE
- Early Pharmacodynamic Preclinical Proof of Concept
- Plans for how to collect preliminary preclinical safety data
 - Secondary pharmacology studies (specificity)
- Preliminary Development Plans (Clinical, Preclinical, CMC, Regulatory)
- Preliminary Commercialization Strategy
 - Preliminary understanding of competitive landscape and path to market



TXCO/RELCO Award

- Established company, one year from filing IND/IDE or in the Clinic
- Established Proof of Concept
- Completed Preliminary Assay Validation Work
- Completed Pilot Toxicology Studies (most sensitive species identified)
- Completed Initial CMC Studies (initial small-scale batches)
- Management and Disciplinary Expert Personnel (Medical/Clinical, Preclinical, CMC, Regulatory, Commercial) Employed or Identified
- Completed Target Product Profile and/or Integrated (Clinical, Nonclinical, CMC, Regulatory) Product Development Plan through to marketing application
- Completed Intellectual Property Strategy and Initial Filings
- Preliminary Commercialization Plan



What makes a strong device/diagnostic application?

	Medical Device	Diagnostic
Market potential	<ul style="list-style-type: none">• ↑ \$250 million segment	<ul style="list-style-type: none">• ↑ \$100 million segment
Sales & marketing (commercialization plan)	<ul style="list-style-type: none">• ↑ New category or improvement of existing category• Direct or distribution strategy• Formulary & buying group strategy	<ul style="list-style-type: none">• New category or test not offered by major Dx player• Direct or distribution strategy• Kit/product or CLIA
Technology & IP (development plan)	<ul style="list-style-type: none">• Existing PCT's or patents• Adequate IP landscape analysis• Design system requirement plan	<ul style="list-style-type: none">• Existing PCT's or patents• Trade secrets, proprietary know-how
Clinical evidence (clinical plan)	<ul style="list-style-type: none">• Bench data• Biocompatibility analysis• Animal data and maybe FIH	<ul style="list-style-type: none">• Human clinical data on sensitivity (w/ disease), & specificity (w/o)• Competitive comparable performance data if existing category, materiality if not
Regulatory & reimbursement	<ul style="list-style-type: none">• Pathway: BLA, PMA, 510k• Existing DRG, ICD and/or CPT• Animal data and maybe FIH	<ul style="list-style-type: none">• CLIA or PMA/510k pathway• Coding plan for Part A & Part B, new or existing
Team	<ul style="list-style-type: none">• Technical team in place• Regulatory consultants engaged	<ul style="list-style-type: none">• Technical team in place• Regulatory consultants engaged• CLIA experienced personnel in operations
Revenue	<ul style="list-style-type: none">• None	<ul style="list-style-type: none">• CLIA should have some revenue



Contacts:

Questions: [Application Portal](#) → CPRIT Help Desk

Phone: 866-941-7146

Email: Help@CPRITGrants.org

Monday through Friday, 7 a.m. to 4 p.m. CT

Questions: [RFAs](#) → Rosemary French

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Q&A

- Submit questions via Zoom Q&A

